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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,089	01/21/2005	Carsten Herpel	PD020071	7015

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EXAMINER

REKSTAD, ERICK J

ART UNIT	PAPER NUMBER
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2621

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/522,089	Applicant(s) HERPEL ET AL.	
	Examiner ERICK REKSTAD	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This is a Non-Final Office Action for Application no. 10/522,089 filed on January 21, 2005.

Claim Objections

Claim 4 is objected to because of the following informalities: claim states "signalled" which should be "signaled". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the coded data", "the file or stream", "the main AV bit stream". There is insufficient antecedent basis for these limitations in the claim. Further the abbreviation "AV" should be defined.

Claims 2-11 are rejected as being dependent on the independent claim 1.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-5 and 7 are rejected under 35 U.S.C. 102(a) as being anticipated by 'Coding of Parameter Sets' by Hannuksela.

[claim 1]

Hannuksela teaches a video coding method using a number of parameter sets being referenced from within the coded data (Section 1. Summary; second paragraph). Hannuksela further teaches the compression parameter sets are stored in auxiliary data files that are uniquely associated to the file or stream containing the main AV bit stream (Section 2.Pre-defined Parameters sets; last three paragraphs). Identifiers of said compression parameter sets and the corresponding references to these identifiers in the main AV bit stream are unique within said auxiliary data files and associated file or stream containing the main AV bit stream (Section 3.3 On Parameter Set Identifiers; first paragraph).

[claim 2]

As shown above, Hannuksela teaches the extending of the existing auxiliary data files in the JVT video encoding standard (Section 1.Summary; first paragraph).

[claim 3]

Hannuksela teaches the video coding method according to claim 1, wherein an additional isomorphic set of auxiliary data files for said file or stream containing the main AV bit stream is created to carry additional information such as said compression parameter sets, as to not sacrifice compatibility with older equipment not being able to process extensions to existing auxiliary data files (Section 3.3; second paragraph).

[claims 4 and 5]

Hannuksela teaches the validity period of said compression parameter set identifiers is explicitly signaled (Section 3.5.3 Rationale for Parameter Selection; second paragraph, Page 8 paragraphs 3 and 4). Note, the parameters are valid for the specific GOP, image or slice.

[claim 7]

Hannuksela teaches the signaling of the validity period of the compression parameter set identifiers is based on an existing identification of the underlying transport or storage entities, such as packets or sectors, associated to portions of the main AV bit stream carried therein (Page 8, second-fifth paragraphs).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hannuksela as applied to claim 4 above, and further in view of US Patent 6,493,028 to Anderson et al.

[claim 6]

As shown above, Hannuksela teaches the requirements of claim 4. Hannuksela teaches the need for different parameter sets for desired application (Section 3.3 On Parameter Set Identifiers, first-second paragraphs). Hannuksela is silent on the use of the file name to signal the validity period of the compression parameter.

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Anderson teaches a compression system which supports multiple compression standards (Figs. 5 and 6). Anderson further teaches the selection of compression parameters based on a file name (file extension) (Col 6 Lines 22-35 and Col 7 Lines 4-16). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the file extension manager of Anderson with the system of Hannuksela in order to configure the system for multiple encoding schemes as taught by Anderson (Col 1 Lines 6-10).

Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hannuksela as applied to claim 1 above, and further in view of US Patent 5,926,208 to Noonan et al.

[claims 9-11]

As shown above Hannuksela teaches proposed change to the JVT encoding standard for providing multiple parameter sets. Hannuksela suggests the decoding of the encoded video (Section 3.4.1. Background, Section 3.5.3 Rationale for Parameter Selection; first paragraph). Note, Hannuksela teaches the JVT codec. Hannuksela is silent on the apparatus for performing the encoding and decoding.

As shown in Figure 2,, Noonan teaches a cost-effective apparatus for performing the encoding and decoding utilizing multiple codecs (Col 3 Lines 6-20). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the apparatus of Noonan with the codec of Hannuksela in order to provide a cost-effective apparatus to encode and decode video as taught by Noonan (Abstract).

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims along with correction of the 112 second paragraph rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICK REKSTAD whose telephone number is (571)272-7338. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Erick Rekstad/

Examiner (Partial-Signatory Authority), Art Unit 2621